

IRON AGE

FARM, GARDEN AND ORCHARD IMPLEMENTS



AMERICAN FACTORY

ESTABLISHED 1860

BATEMAN MFG CO.

GRENLOCH, NEW JERSEY, U.S.A.

CANADIAN FACTORY

THE BATEMAN-WILKINSON CO., LIMITED

TORONTO, ONTARIO



WEBS ARE HARROWED
IN STOCK AT CEN-
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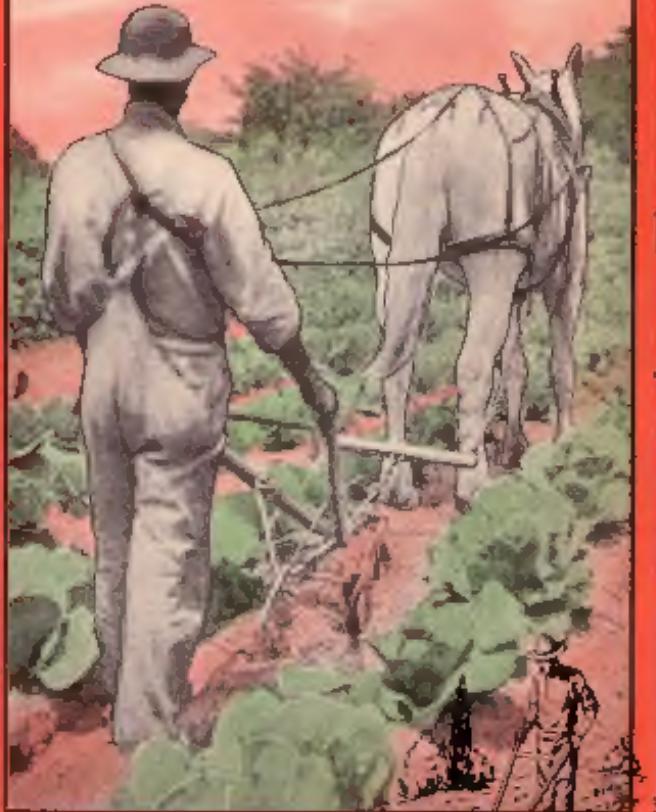
LIBERAL STOCKS OF
VITABLE FODDER
FOR DAIRY, SWINE,
AND HORSES IN THE
WEST, EAST, AND
MIDWEST. ALSO
WAREHOUSE STOCKS
TO THE SOUTH.

IF NOT HANDLED BY
YOUR LOCAL DEALER,
WRITE US FOR
NEAREST ADDRESS
WHERE STOCK CAN
BE SEEN AND EX-
PLAINED.

HORSE HOES HARROWS AND CULTIVATORS

FOR MARKET GARDENERS,
GENERAL FARMERS,
FRUIT GROWERS,
SUGAR BEET FARMERS

RIGHT CULTIVATION MEANS LARGER
YIELDS AND MORE PRODUCTIVE LAND



IRON AGE
BATEMAN MFG CO.

One-Horse Tools That Are Always Needed

The first "Iron Age" One-Horse Cultivator went on the market a bit less than forty years ago. It made a hit. Some of those tools are still in business, and going strong at that.

Others have been added from year to year—better, lighter, stronger, more compact and with attachments that keep them right in line with new ideas about cultivation. They are needed. That's why we build 20 or more different combinations.

The Two-Horse Walking Cultivators, the Riders and a whole host of Wheel Hoes have failed to run them out of business. They don't compete. They complete a cultivator combination that knows no equal.

Keep the odd horse busy, stir up the short rows where there's lots of turning, use them for close work where the big machines won't do or where the hand tool finds too big a contract.

Market gardeners use the One-Horse Cultivator for late crops after alternate crops have been harvested, such as tomatoes and

early peas, or onions and beans. The small-fruit man and the sugar beet grower use the styles that are built especially for them.

It doesn't take a mechanic to operate these cultivators. They are simple, so jot this down on the credit side—your help can use them without damage to the crops or injury to the machine.

It's the points and steels that really do the business—ours are made of the best of material and upset at the back of each point to give double the wear.

The many modern attachments are, in most cases, made to fit not only present day machines but old style as well. If you have old "Iron Age" tools, it will pay you to investigate. See page 3.

Poor or worn-out tools are waste of time and mental energy—don't use them, when you can buy tools like these at such low prices.

Ask for our Garden Tool
booklet showing 38 or
more styles and combi-
nations of hand tools

BATEMAN M'F'G CO.,
GRENLOCH,
NEW JERSEY,
U. S. A.



No. 3, Furrow-Closing Harrow
in Gooseberries

Horse Hoe and Cultivator

No. 600EL is a built-up machine. It can be purchased as shown complete, or as a plain horse hoe without lever expander or lever wheel, or as plain five- or seven-tooth cultivators, or with various attachments shown on page 3. It is only necessary to know what your conditions of ground, crop and labor need.

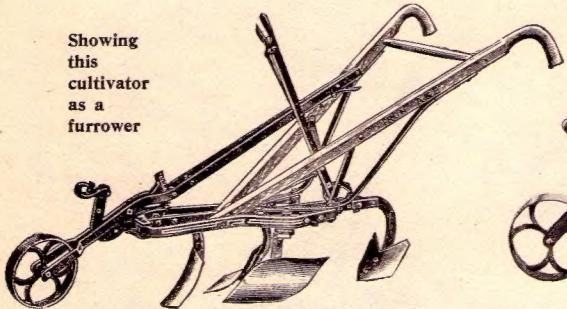


Fig. 80

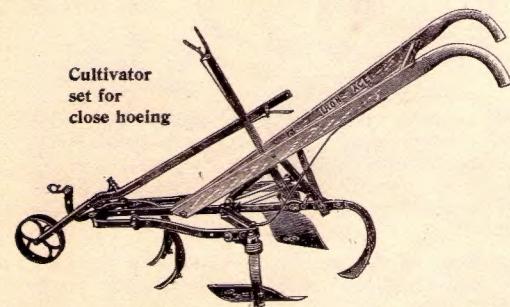


Fig. 167

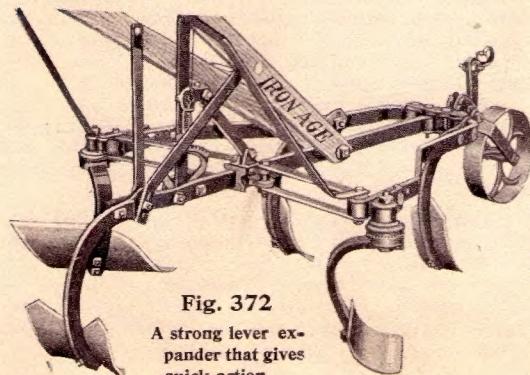
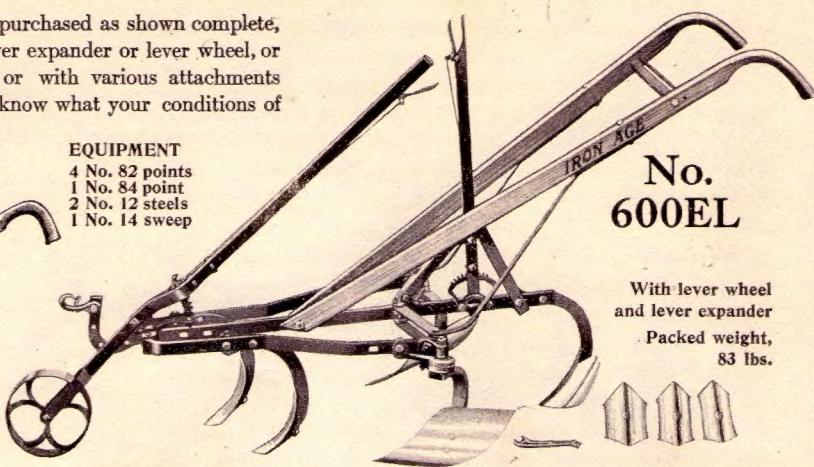


Fig. 372
A strong lever expander that gives quick action

EQUIPMENT

- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep



Construction

Simplicity, strength, rigidity, compactness, lightness and convenience are the results obtained in this line. These are all absolutely necessary because this kind of tool is usually operated by the hired man—they are one-horse tools; they are in constant use and they must wear well.

The long, high, steel frame makes the tool run steadily and clear of trash.

The hoe standards are solid steel, securely attached to the frame bars by malleable ratchet castings—these give several easy adjustments to the side hoes, sidewise and at different angles.

Range of Cultivation

When used as cultivator, expands to 30 inches and closes to 14. Teeth attached to hoe standards in same position as side hoes in Fig. 80, are 11 inches apart.

For close hoeing, No. 600EL may be set as in Fig. 167—side hoes are reversed with rounded edge forward—also to take away soil from a ridged crop.

As a furrower for manure, etc., No. 600EL can be set as in Fig. 80, with the ratchet castings reversed on inside of the frame bars, bringing the hoes together.

Changed from side to side with points forward, for covering. (See Fig. 104, page 3.)

The expander lever changes the tool instantly, while in motion, to any width within range. The bars, lever, and braces are steel with malleable fittings—works smoothly. Has never been changed. See Fig. 372.

No. 600EL shows the *lever wheel*, at times, a very necessary attachment—it regulates the working depth while the machine is in motion and saves time.

Other Combinations of No. 600 Horse Hoe and Cultivator



No.
600P

With plain wheel

Packed weight,
68 lbs.

EQUIPMENT

- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep



Fig. 180

No. 1 points

No. 600P

This means without lever expander and with plain wheel only, and brings the tool down to its simplest form. It is equipped with plain expander bars, held in place by a steel stirrup clamp. While this is not so convenient for adjustment, it is more rigid and makes the most durable form of horse hoe—it will stand the rough knocking around of careless or green men. Is that the kind of men you have to buy for? A straight-ahead tool for straight-ahead men.



No.
600EP

Packed weight,
76 lbs.

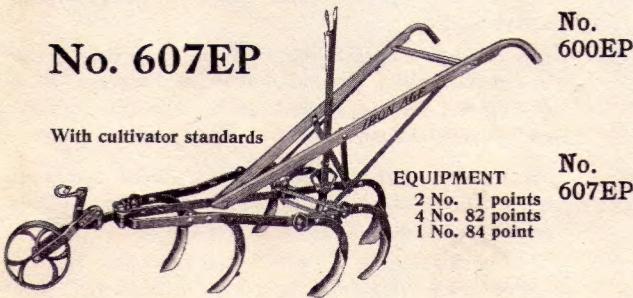
EQUIPMENT

- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep



No. 607EP

With cultivator standards



No.
600EP

No.
607EP

EQUIPMENT

- 2 No. 1 points
- 4 No. 82 points
- 1 No. 84 point

7-tooth cultivator, with furrow-closing attachment



Fig. 101

Equipped for level cultivation, with 2 10-in.,
1 12-in. No. 18 sweeps,
2 No. 82 points.

To Make
Wide,
Shallow
Cut

Means with expander lever and plain wheel. The lever wheel is only a convenience, which, however desirable, is not always necessary and the tool loses none of its actual working value without it. Your work may not require constant changing of the working depth—so why should you buy the tool with lever?

Means same frame as the No. 600 machines, with expander lever and plain wheel, and with seven cultivator teeth, *including Fig. 180*.

On a five-tooth cultivator, the rear tooth on each side bar passes close to the crop—it stirs the soil just where it is needed, but leaves an open furrow, which should be closed. This is especially true when the cultivator is opened wide and the center tooth or sweep cannot close the furrow. The teeth on *Fig. 180* do this well. You can buy as complete machine or as an attachment to complete machine already in use. Also furnished with lever wheel, if ordered as No. 607EL,

Also, as plain five-tooth cultivators—if with cultivator standards, order as No. 605C, (means same as No. 607EP without expander lever, without wheel and without *Fig. 180*)—if wanted with horse hoe standards, order No. 605H.

The tool may be equipped with No. 18 sweeps as in *Fig. 101*. This gives the shallow, level cultivation, which most farmers think is the right way to keep the moisture in the ground. The sweeps can be set to run deeper and can be used in various combinations. They are used a great deal for cutting out thistles. Made in 8, 10, 12 and 15-inch widths (see inside back cover). Can be applied only on No. 6.

Attachments for Horse Hoes and Cultivators

Fig. 188
Black parts show
depth regulator
attachment

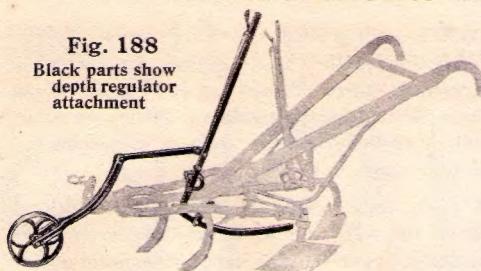


Fig. 73
Black parts show
vine lifter at-
tachment

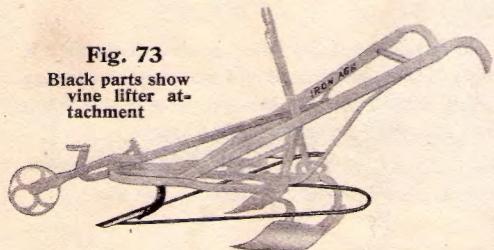


Fig.
103

Hilling attachment

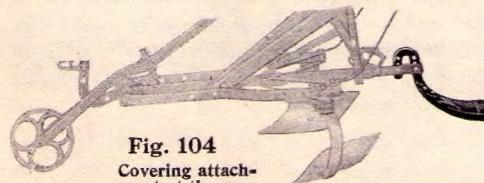


Fig. 104
Covering attach-
ment at the rear

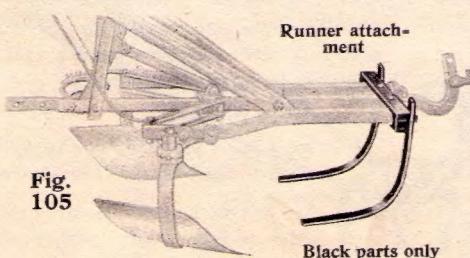


Fig.
105

Runner attach-
ment

Black parts only

Depth Regulator Attachment

When applied as in *Fig. 188*, and adjusted with front lever, you can quickly change the working depth of the cultivator. Wheel and regulator work together, but either may be adjusted separately. Set the regulator at its extreme depth and you can raise the cultivator from the ground entirely and draw it easily to and from the field. Can be applied to Nos. 600, 1005 and 36. When wanted as complete machine with this attachment, order as *No. 600ED*,

Vine Lifters

easily attached as in *Fig. 73*, are used in all vine and brush crops but principally in working sweet potatoes. Can be applied only on Nos. 600 and 1005.

Side Hoe Attachments

Fig. 211 shows set of side hoe parts complete for No. 35 Weeder and Cultivator. They will fit any "Iron Age" Horse Hoe and Cultivator, except No. 38, for which we furnish *Fig. 212*. This also will fit any "Iron Age" Horse Hoe and Cultivator except No. 35. Both brackets and standards are adjustable, so the hoes can be set for angle and depth.

The Hilling Attachment

shown in *Fig. 103*, is used in cases where higher ridging is wanted than the regular side hoes can do. To apply, simply remove four standards, attach one of them on the middle bar and the short standards of the hillling blades to the side bars. We do not furnish any cultivator standard with this attachment. Can be applied on Nos. 600 and 1005.

The Leveler

is applied as shown in *Fig. 104*. It is used on the Horse Hoe when covering corn, potatoes, peas and other like crops. Also, in making up rows for root crops, etc. The side hoes are reversed for covering. Can be used on any "Iron Age" Horse Hoe.

Runner Attachment

Fig. 105

When the tool is used as a coverer, steel runners can be attached in place of the wheel—this steadies the tool and there is no chance of displacing seed, as with the wheel. Using two horses would be still better—they would be each side of the row and not on it. The runner attachment can be used on any "Iron Age" Horse Hoe.

Break-Pin Tooth Clamp

Fig. 250

It provides for use of a wooden pin in the upper end of the cultivator standard instead of a bolt. When the tooth strikes an obstruction, the pin breaks and the standard is not even bent. The clamp holds the standard firmly in place. Will fit any "Iron Age" five- or seven-tooth Cultivator except Nos. 605, 607.

Fig. 211

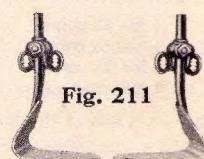
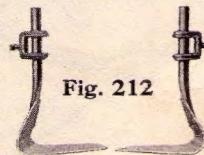


Fig. 212



Solid part
shows
break-pin
tooth
clamp
applied to
cultivator
standard

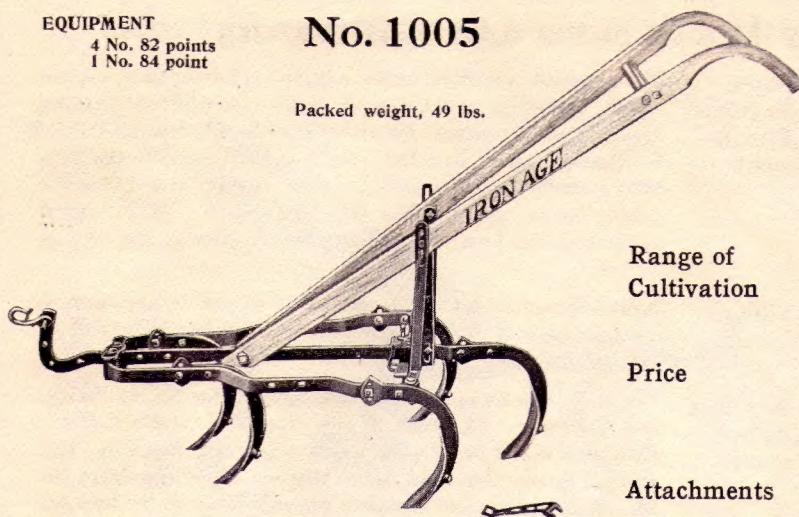
Fig. 250

EQUIPMENT

4 No. 82 points
1 No. 84 point

No. 1005

Packed weight, 49 lbs.



Range of
Cultivation

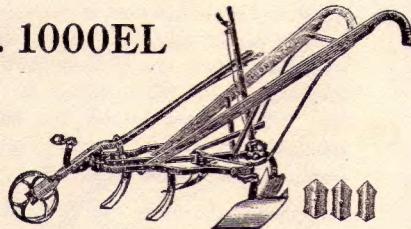
Price

Attachments

EQUIPMENT

4 No. 82 points
1 No. 84 point
2 No. 12 steels
1 No. 14 sweep

No. 1000EL



Safe,
Clean
Cultivation

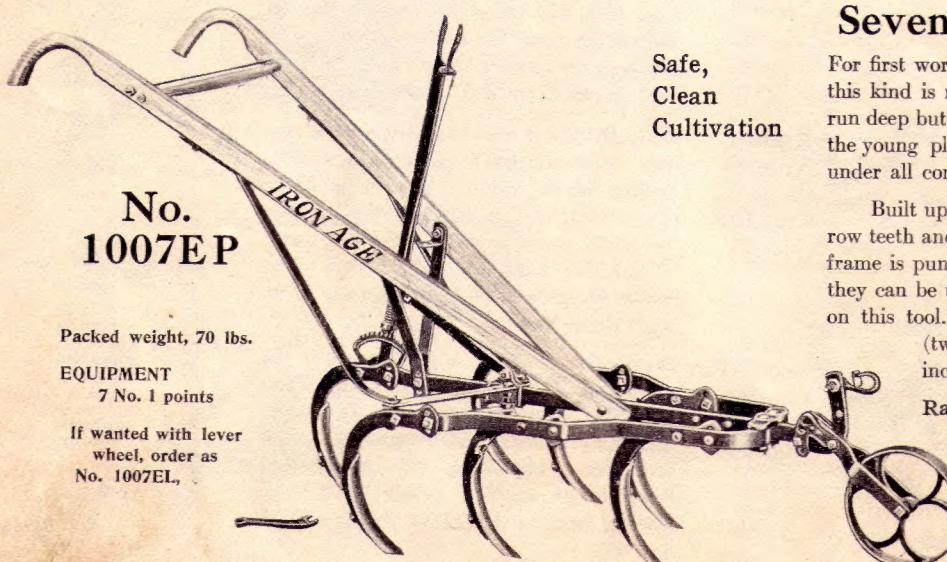
No.
1007EP

Packed weight, 70 lbs.

EQUIPMENT

7 No. 1 points

If wanted with lever
wheel, order as
No. 1007EL.



Five-Tooth Cultivator

Because it is plain, strong and simple, it is the best tool for sections where a strong low-priced tool is needed; where laborers are careless or do not know how to handle machines. When set to do certain work it does that work—it cannot get out of adjustment.

A plain clamp expander adjusts the width at which the teeth are to work—they open to 24 inches and close to nine, range enough for a wide variety of crops.

Low in price, but not cheap grade—there are few parts—levers and wheels and side hoes cost money—they can be used on this tool when wanted, but you buy only what you should have.

Figs. 188, 73, 103, 104, 105, 211 (or 212) and 250, page 3, can be used on any form of this tool.

Horse Hoe and Cultivator

The complete tool is shown in No. 1000EL with lever wheel, lever expander, horse hoes and rear steel; also, the extra teeth and standards that convert No. 1000EL back to No. 1005. The additional parts make the machine more convenient and, in the end, more economical.

Seven-Tooth Cultivator

For first workings or in level cultivation, a tool of this kind is needed. Narrow teeth are used—they run deep but throw small furrows that do not harm the young plants. Cultivation is done thoroughly under all conditions of the soil.

Built up from the frame of No. 1005 with narrow teeth and seven of them instead of five. The frame is punched to take the extra teeth, so that they can be used as needed. Handles are trussed on this tool. When shipped regular, No. 1 teeth (two-inch) are sent. No. 0 teeth ($1\frac{1}{4}$ -inch) can be furnished if wanted.

Range of Cultivation

No. 1007EP opens to 24 inches and closes to ten. Has lever expander.

Lever wheel will be shipped in place of the plain wheel when ordered that way.

Nine-Tooth Cultivator with Lever Expander

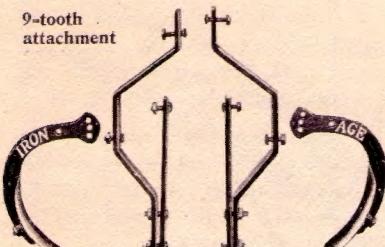


Fig. 395

Two Advantages

No. 1009 is still another form of the same tool. There are nine teeth—the two at the rear fill up the furrow on each side, left by the teeth that travel nearest the row. This prevents the hot sun and wind from burning up the roots.

Another advantage is that it can be used with five, seven or nine teeth. It is complete in each form and all the changes are easily made.

Range of Cultiva- With nine teeth it opens to 36 inches and closes to 21. It has a lever expander. The wide spread makes it

useful as an Orchard Cultivator. The teeth are adjustable for the angle at which they enter the ground.

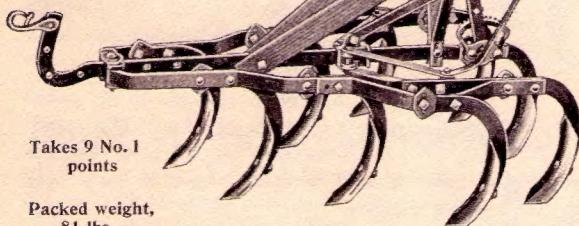
Nine-Tooth Attachment

Note

Fig. 395 is all that is required to make any No. 1007 cultivator into a nine-tooth machine. An extra pair of points and standards are needed to do the same for No. 1005.

A plain wheel is furnished only when ordered. The number is 1009EP,

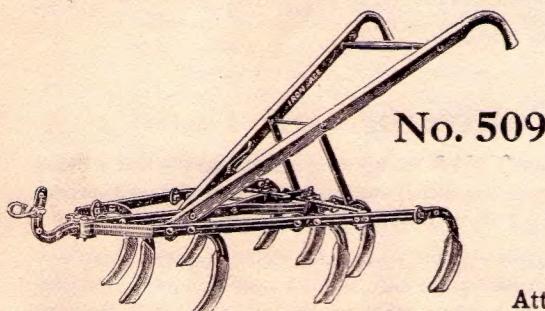
Fig. 395 and Nos. 1007-1009 take No. 1 points, and if No. 1005 is changed to nine-tooth, the points should be alike, whichever you want. We recommend No. 1 points.



No. 1009E

Nine-Tooth Orchard Cultivator

No. 509



No. 509

Another nine-tooth cultivator with wide (three-inch) points and a special frame that makes it suitable for work in orchards where the branches do not hang wide or low. It is especially adapted for peach orchards and orange groves. The frame is rigid and takes the full nine No. 82 points, spaced so that they have good clearance.

The range of cultivation is from nearly four feet down to 20 inches. It can be equipped with a plain wheel (order No. 509P) or a lever wheel (order No. 509L). It takes the clamp expander only.

Attachments Figs. 104, 105 and 211 (or 212) can be used. (See page 3.)

Crank Expander Horse Hoe and Cultivator



No. 700L

No. 700L

is built just like No. 6 except that it has a crank wheel expander. The wheel adjusts quickly to *any width* within range, 14 inches to 30—both sides are fastened with the one wheel. The tool can be set to suit any crop.

This cultivator may be fitted with a special plain wheel adjustment, Fig. 238. The wheel is held in place by a pair of ratchet castings that provide for finer adjustments and save three-fourths of the time in making them. Figs. 104, 105, 211 (or 212), 250 on page 3 and Fig. 180, page 2, can be used.

Attach- ments

Figs. 104, 105, 211 (or 212), 250 on page 3 and Fig. 180, page 2, can be used.

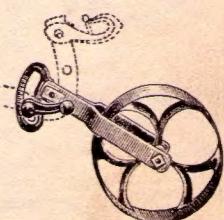


Fig. 238

Screw Expander Horse Hoe and Cultivator

No. 800L

With lever wheel

If with plain wheel,

Packed weight,
83 lbs.

EQUIPMENT

- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep

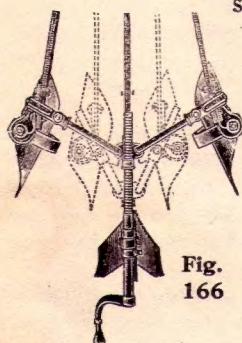
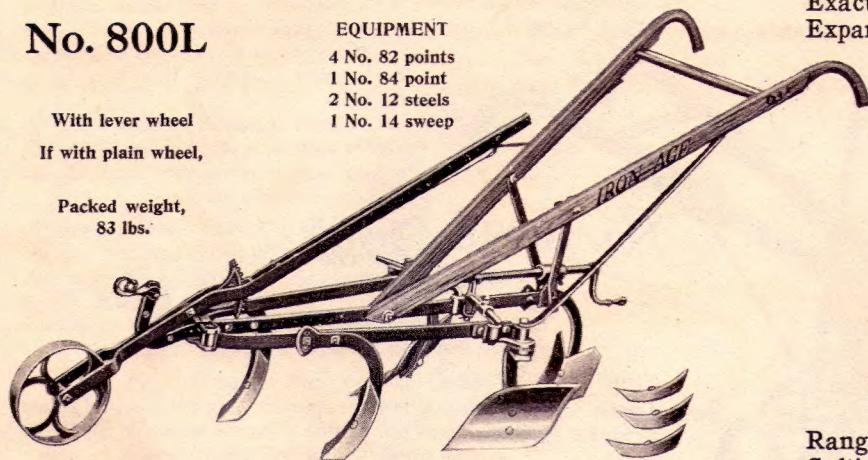


Fig.
166

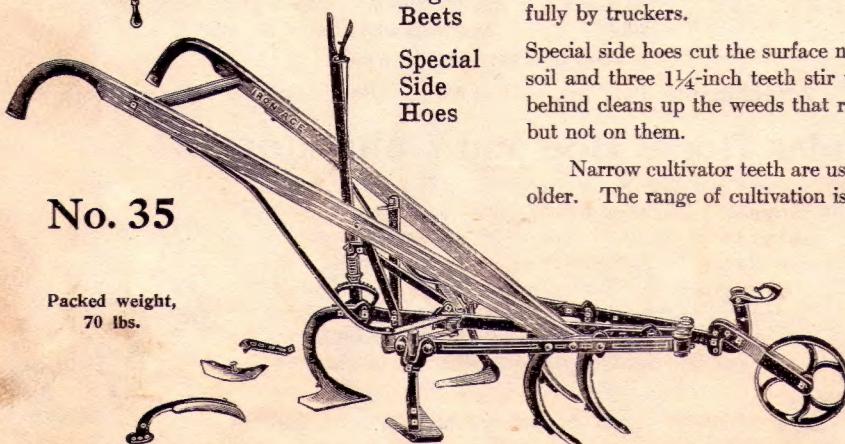
Special Weeder and Cultivator

For
Sugar
Beets

Special
Side
Hoes

No. 35

Packed weight,
70 lbs.



Exact
Expansion

This tool is distinguished chiefly by a screw expander. It permits a much finer adjustment than a pawl and ratchet. See *Fig. 166*.

Then there is an additional set screw adjustment for the expander connecting rods that permits each side to be set separately for wide or narrow rows.

In going twice to the row the right hand side may be drawn in for the second trip so that the furrows left next the crop will be filled in. This prevents the sun and wind from drying out the roots.

Range of
Cultivation

and the side hoes adjusted to form a double moldboard plow for opening furrows.

If wanted with plain wheel instead of lever wheel, order No. 800P.

Attachments *Figs. 104, 105, 211 (or 212) and 250*, on page 3, can be used on this tool.

No. 35 is built for sugar beets. It has the right equipment for the first working of the crop, and combinations to stay with it until maturity. It is also used successfully by truckers.

Special side hoes cut the surface next the young beets without covering them with soil and three $1\frac{1}{4}$ -inch teeth stir up the middles. An eight-inch sweep traveling behind cleans up the weeds that remain and turns the soil back toward the beets but not on them.

Narrow cultivator teeth are used in place of the side hoes when the crop gets older. The range of cultivation is from 22 inches down to 12.

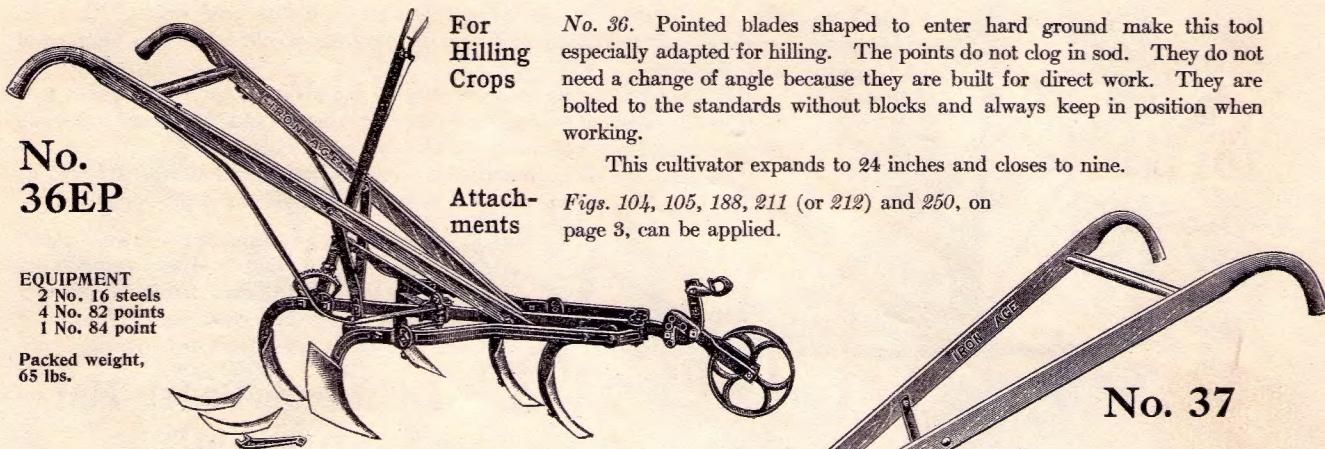
Equipment

Takes four No. 0 points, one No. 18 eight-inch sweep, one No. 89 point, and pair of special side hoes.

Attachments

Figs. 104, 105, 211 and 250, shown on page 3, can be used.

Special Hilling Horse Hoe and Cultivator



No.
36EP

EQUIPMENT
2 No. 16 steels
4 No. 82 points
1 No. 84 point

Packed weight,
65 lbs.

For
Hilling
Crops

Attachments

No. 36. Pointed blades shaped to enter hard ground make this tool especially adapted for hillling. The points do not clog in sod. They do not need a change of angle because they are built for direct work. They are bolted to the standards without blocks and always keep in position when working.

This cultivator expands to 24 inches and closes to nine.

Figs. 104, 105, 188, 211 (or 212) and 250, on page 3, can be applied.

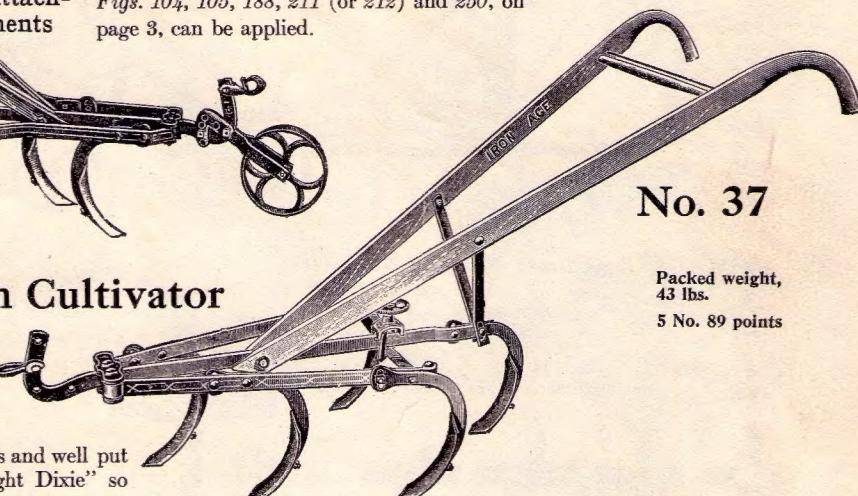
No. 37

Packed weight,
43 lbs.
5 No. 89 points

Light Work Five-Tooth Cultivator

For
Light
Soils
Only

No. 37 is built to work only in the light, sandy soils found in the South Atlantic and Gulf States. It cannot be guaranteed for other sections or in different soils. It is a light weight tool but made of high grade materials and well put together. Made similar to our "Light Dixie" so well known in past years.



Nine inches up to 20 are the limits of cultivation for this tool. It is furnished with a clamp expander. Bent side bars can be furnished for the frame, if ordered that way.

Attachments Figs. 104, 105, 211 (or 212) and 250, on page 3, can be applied.

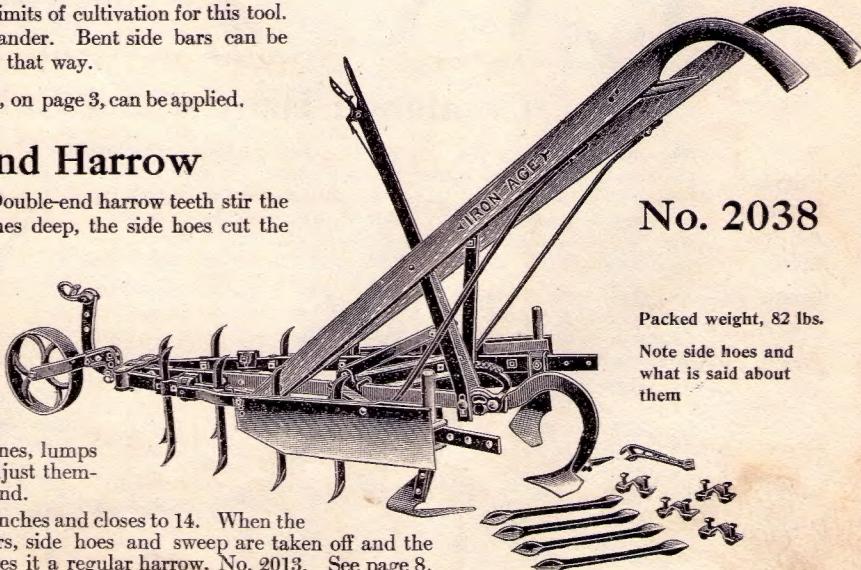
Special Weeder and Harrow

No. 2038 Another tool for sugar beets. Double-end harrow teeth stir the soil in the middle several inches deep, the side hoes cut the surface close to the crop but keep the soil from covering the plants, and the rear sweep turns the loose soil back to the plants but not on them—this leaves the surface level. Fig. 87 (page 8) shows the style of teeth.

Steel
Fenders They protect the plants from stones, lumps of dirt and loose soil. They adjust themselves to the surface of the ground.

A lever expander opens to 29 inches and closes to 14. When the crop is partly grown the fenders, side hoes and sweep are taken off and the extra teeth are used. This makes it a regular harrow, No. 2013. See page 8.

The side hoes are also sold as an attachment. (Fig. 212, on page 3.)

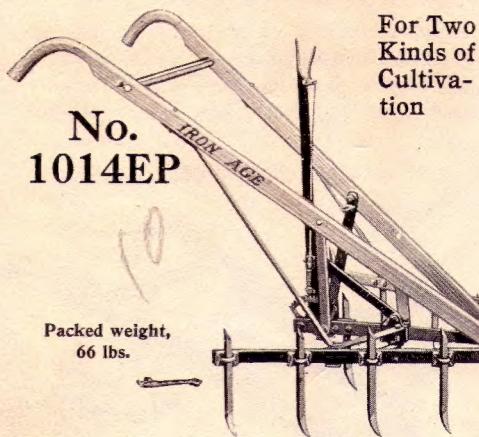


No. 2038

Packed weight, 82 lbs.

Note side hoes and what is said about them

Combined Diamond-Tooth Harrows and Cultivators



Packed weight,
66 lbs.

For Two
Kinds of
Cultiva-
tion

No. 1014 harrows are popular with farmers—and with good reason. They are adapted for many different crops and for two kinds of cultivation—as a harrow and as a cultivator.

The high frame, clean-cut construction and ability to eat up the weeds, puts them on the premium list for sugar beets, strawberries and other small fruits, and they are good for miscellaneous farming, too.

The teeth are steel, diamond-shaped, with a small cultivator point forged on one end (Fig. 21). There are 14 of them, all adjustable for depth and angle.

Range of Cultivation With a lever expander as in No. 1014EP, this tool opens to 34 inches and closes to 11. With plain expander, cultivates 38 inches wide. For close work the operator can take off as many teeth as he pleases.

Diamond-Tooth Harrow (only)



Fig. 86
Sweep,

Sure Death to Weeds and Grass.
Fig. 86. This attachment is a wide, flat sweep on a high arched, adjustable standard, to be attached to rear end of middle bar. Fits either No. 1014 or No 2013.



Fig. 21
Showing adjustment of teeth on Nos. 1 and 3

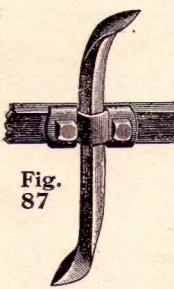


Fig. 87
Tooth for No. 2013

No. 2013EP This harrow is like No. 1014EP, except that it has 13 double-end teeth (Fig. 87), which are adjustable for depth only. Many men prefer the double-cultivator points rather than the adjustment for angle. This tool can also be made into No. 2038. See page 7.

other combinations, Nos. 1014-2013

No. 1014, plain (means without expander lever or wheel),
For plain wheel,
For lever wheel,
For lever expander,
No. 2013EP, with lever expander and plain wheel,
No. 2 plain,

Combined Harrow and Cultivator

With
Furrow-
Closing
Attach-
ment

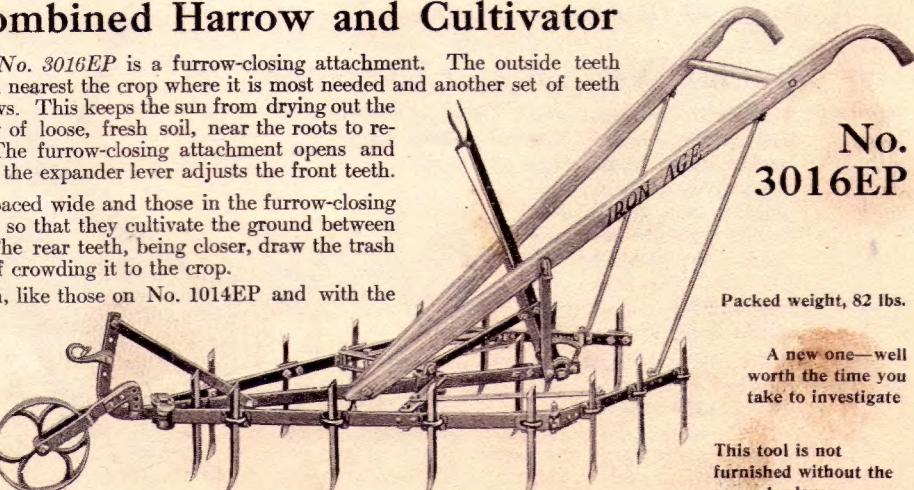
The strong point on No. 3016EP is a furrow-closing attachment. The outside teeth thoroughly stir the soil nearest the crop where it is most needed and another set of teeth behind fill in the furrows. This keeps the sun from drying out the roots and leaves plenty of loose, fresh soil, near the roots to retain the moisture. The furrow-closing attachment opens and closes automatically as the expander lever adjusts the front teeth.

Properly
Spaced
Teeth

The front teeth are spaced wide and those in the furrow-closing attachment are placed so that they cultivate the ground between the teeth in front. The rear teeth, being closer, draw the trash to the center instead of crowding it to the crop.

There are 16 teeth, like those on No. 1014EP and with the same adjustments for depth and angle. They can be expanded to 35 inches and closed to 17.

The long frame with the rear attachment makes the tool run steadily.

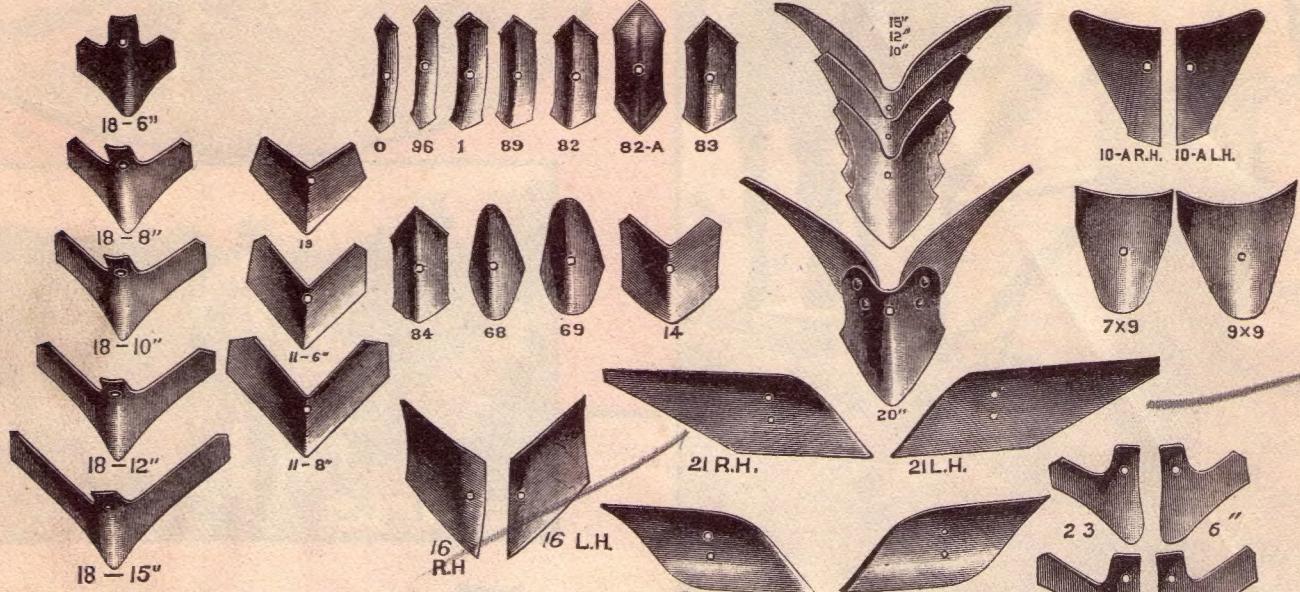


Packed weight, 82 lbs.

A new one—well worth the time you take to investigate

This tool is not furnished without the expander lever

Cultivator Points and Steels



PRICES

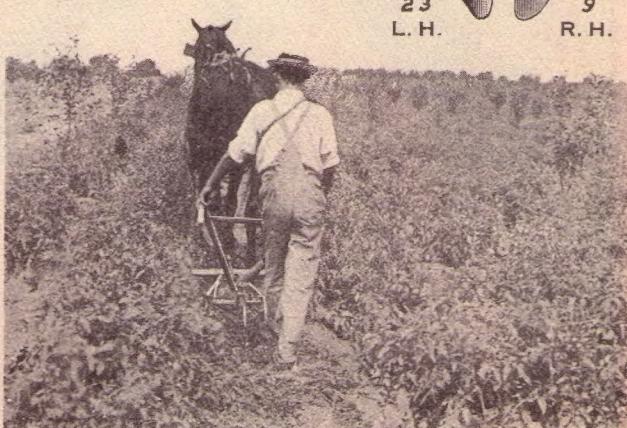
No. 0, 1½ in.	.....
No. 96, 1½ "	.....
No. 1, 2 "	.....
No. 89, 2½ "	.....
No. 82, 3 "	.....
No. 82A, 3 "	.....
No. 83, 3½ "	.....
No. 84, 4 "	.....
No. 68, 4 "	.....
No. 69, 4½ "	.....
No. 10A, R. or L.	.....
No. 11, 6 in.	.....

No. 11, 8 in.	.....
No. 12, R. or L.	.....
No. 14, 7 in.	.....
No. 16, R. or L.	.....
No. 18, 6 in.	.....
No. 18, 8 "	.....
No. 18, 10 "	.....
No. 18, 12 "	.....
No. 18, 15 "	.....
No. 19,	.....
No. 21, R. or L.	.....
No. 23, 6 in., R. or L.	.....
No. 23, 7 "	.....
No. 23, 8 "	.....

No. 23, 9 in., R. or L.	.....
10-in. Furrower.	.....
12 "	.....
15 "	.....
20 "	Imp. with point and bolt (No cut)
Reversible point and bolt for above	.....
20-in. Furrower, reg.	.....
Shovel Blade, 7 x 9	.....
Shovel Blade, 9 x 9	.....



Ridging sweet potatoes with 20-inch Furrower



Late cultivation of tomatoes

IRON AGE

